Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

Claims 1-34 (canceled)

- (Currently amended) A method of removing a chemical pollutant comprising a step of forming an intermediate in the production of a carbonaceous mixture that comprises carbon nanotubes and expanded graphite, wherein the carbon nanotubes further comprise at least one of a C₁, C₂, C₃, C₄, and C₅ radical, and wherein the intermediate comprises a carbonaceous feedstock and at least one compound according to the general formula MXO_n, wherein M is selected from the group consisting of H, NH₄, Na, and K, wherein X is selected from the group consisting of Cl, Br, and l, and wherein n is an integer between 1 and 4, inclusive; a step of forming the carbonaceous mixture from the intermediate; and further comprising a step of using contacting the carbonaceous material with the pollutant to thereby remove the pollutant.
- 36. (previously presented) The method of claim 35 wherein the nanotubes in the carbonaceous mixture are present in an amount of at least 10%.
- 37. (previously presented) The method of claim 35 wherein the nanotubes have a size of between 1 nm to 10 nm.
- 38. (previously presented) The method of claim 35 wherein the nanotubes further comprise a carbon radical having a hexagonal ring structure comprising at least one of a C₁, C₂, C₃, C₄, and C₅ radical.
- 39. (previously presented) The method of claim 35 wherein the carbonaceous feedstock and the at least one compound are present in an amount of 2:1.
- 40. (previously presented) The method of claim 35 wherein the carbonaceous feedstock comprises graphite flakes or graphite powder.
- 41. (previously presented) The method of claim 35 wherein M is H.

- 42. (previously presented) The method of claim 35 wherein M is NH₄.
- 43. (previously presented) The method of claim 35 wherein M is Na.
- 44. (previously presented) The method of claim 35 wherein M is K.
- 45. (previously presented) The method of claim 35 wherein X is Cl.
- 46. (previously presented) The method of claim 35 wherein X is Br.
- 47. (previously presented) The method of claim 35 wherein X is L
- 48. (previously presented) The method of claim 35 wherein n is 1.
- 49. (previously presented) The method of claim 35 wherein n is 2.
- 50. (previously presented) The method of claim 35 wherein n is 3.
- 51. (previously presented) The method of claim 35 wherein n is 4.